

USER'S MANUAL

DVR

Digital Video Recorder

Contents

Chapter 1: DVR Features.....	1
DVR Feature	1
Chapter 2: Overview	1
2.1 Front Panel	1-1
2.2 Rear Panel	1-1
2.3 Remote Control(just for reference)	1-2
Chapter 3: Installation.....	2
3.1 Install Hard Disk	2
3.2 Connecting Camera and Monitor	2
3.3 VGA Output (optional).....	2
3.4 Connecting Power Supply	2
Chapter 4: Starting the DVR.....	2
4.1 Firmware Version	2
4.2 Detecting Installed Hard Drive.....	3
4.3 Format Hard Drive	3
Chapter 5: DVR Menu System.....	3
5.1 Navigating the Menus	3
5.2 Menu Overview	3
5.3 Camera Setup	4
5.4 Record Setup	4
5.5 Record Frame Rate.....	5
5.6 Video Quality	5
5.7 Record Schedule.....	5
5.8 Sensor Setup	6
5.9 H/W Sensor Setup	6
5.10 Motion Detector Setup	7
5.11 Hard Drive Setup.....	7
5.12 Miscellaneous Setup - Change Password	8
5.13 Miscellaneous Setup - Set Time	8
5.14 Miscellaneous Setup - Hidden Channel	9
5.15 Miscellaneous Setup - Audio Port Setup.....	9
5.16 Miscellaneous Setup - PTZ Setup	9
5.17 Miscellaneous Setup - Image Parameters.....	10
5.18 Miscellaneous Setup - Password Enable	10
5.19 Miscellaneous Setup - Keypad Tones.....	11
5.20 Miscellaneous Setup - VGA Setup	11
5.21 Network Setup	11
5.22 Language	15
5.23 Video Backup (For Optional USB Memory Stick Backup)	15
5.24 Reset Menu.....	17
5.25 NTSC/PAL Output select	17
Chapter 6: Record.....	17
6.1 Start Recording.....	17
6.2 Audio Recording	18

6.3 Stop Recording	18
6.4 Estimated Recording Length	18
Chapter 7: Playback.....	19
7.1 Playback Control	19
Chapter 8: USB Programming (optional).....	19
8.1 Driver Installation:	19
8.2 Program Interface	20
8.3 Program Running	20
Chapter 9: Specification	24
Chapter 10: Appendix	25
10.1 System connection diagram.....	25
10.2 Accessories.....	25

Chapter 1: DVR Features

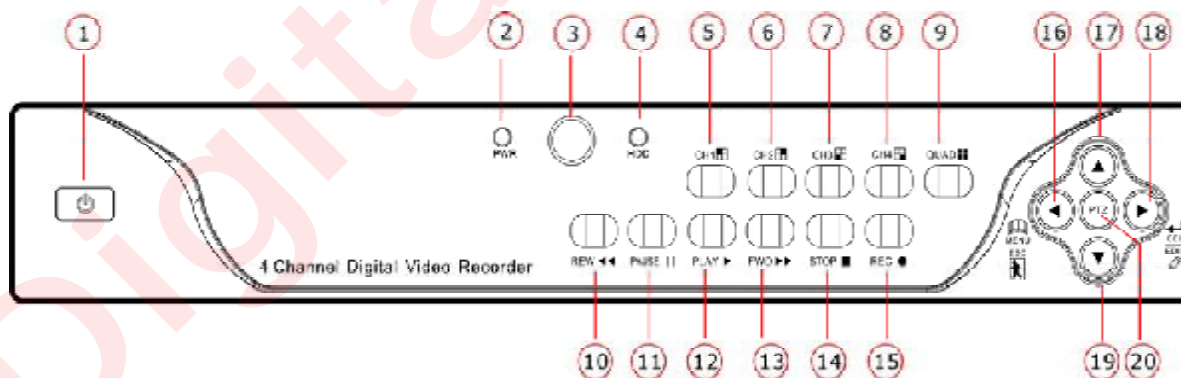
DVR Feature

- MPEG4 compression
- **4-Channel:** 4 BNC Camera Inputs - 2 BNC Video Outputs
- **9-Channel:** 9 BNC Camera Inputs - 1 BNC Video Output
- **4-Channel:** 2 Audio Inputs - 2 Audio Outputs
- **9-Channel:** 1 Audio Input - 1 Audio Output
- System Format : NTSC /PAL
- Motion Detection with Sensitivity and Area Settings
- Time Schedule, Alarm and Motion Triggered Recording Modes
- Hard Disk Support up to 500GB
- Supports PTZ Control via RS485 Port
- View and Operate over Network (Broadband Connection Required)
- Built-in USB2.0 Port for Backup to Computer or USB Memory stick Backup (Optional)
- VGA Output (Optional)

Chapter 2: Overview

2.1 Front Panel

2.1.1 4-ch DVR front panel(just for reference)



1. Power switch
2. Power LED
3. IR receiver
4. HDD LED
5. CH 1
6. CH2
7. CH3
8. CH 4

9. QUAD: view all channels
10. REW: rewind
11. PAUSE
12. PLAY
13. FWD: forward
14. STOP
15. REC: record
16. MENU/ESC/LEFT

User Manual

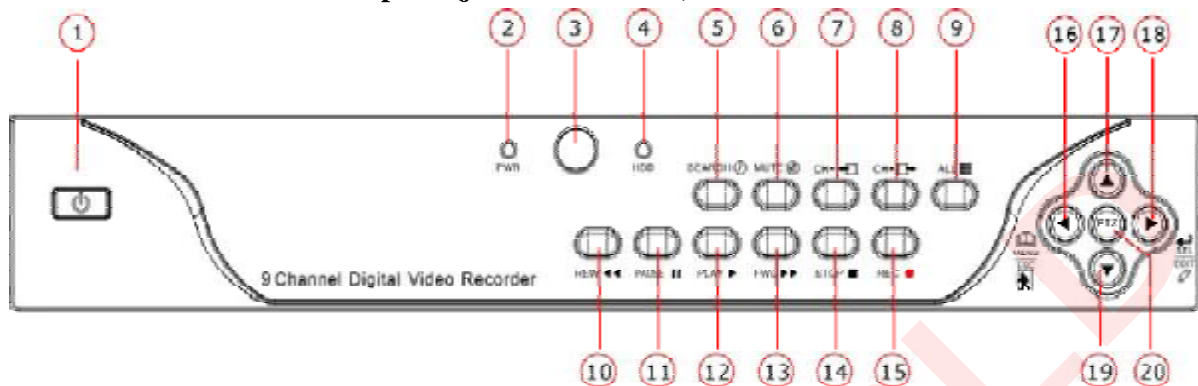
17.UP

19.DOWN

18.SEL/EDIT/RIGHT

20.PTZ: enter PTZ mode

2.1.2 9-channel DVR front panel(just for reference)



1.Power switch

11.PAUSE

2.Power LED

12.PLAY

3.IR receiver

13.FWD: forward

4.HDD LED

14.STOP

5.Search

15.REC: record

6.MUTE: turn on/off audio output

16.MENU/ESC/LEFT

7.CH-: view previous channel

17.UP

8.CH+: view next channel

18.SEL/EDIT/RIGHT

9.ALL: view all channels

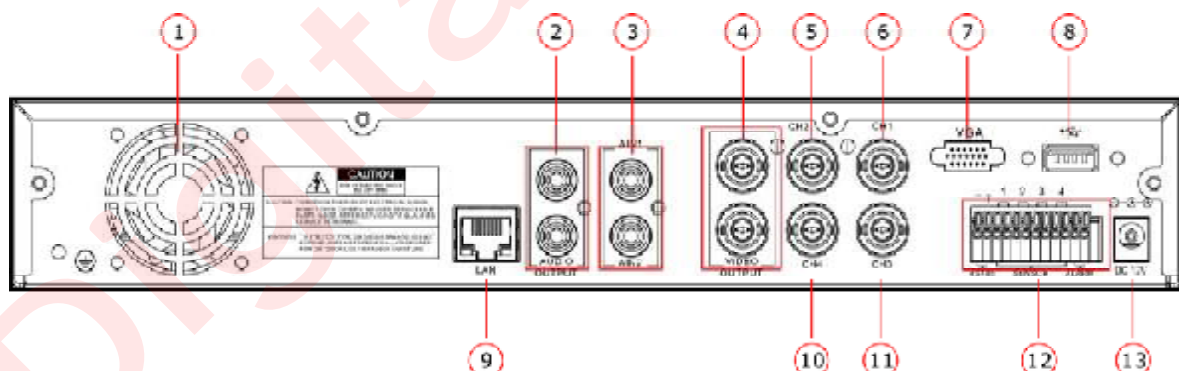
19.DOWN

10.REW: rewind

20.PTZ:enter PTZ mode

2.2 Rear Panel

2.2.1 4-channel DVR real panel(just for reference)



1.FAN

8.USB port

2.Audio outputs

9. LAN: Ethernet port

3.Audio inputs

10.CH4:video input

4.Video outputs

11.CH3:video input

5.CH2:video input

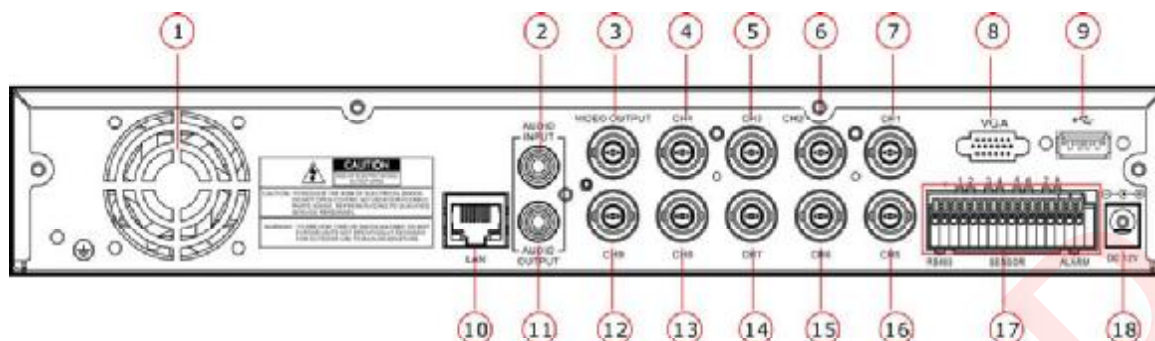
12.RS485/Sensor/Alarm

6.CH1:video input

13.DC Power Input Jack

7.VGA output (Optional)

2.2.2 9-channels DVR rear panel(just for reference)



- 1.FAN
2. Audio input
3. Video output
- 4.CH4: video input
5. CH3: video input
6. CH2: video input
- 7.CH1: video input
8. VGA output (Optional)
9. USB port

10. LAN: ethernet port
11. Audio output
12. CH9: video input
13. CH8: video input
14. CH7: video input
15. CH6: video input
16. CH5: video input
17. RS485/Sensor/Alarm
18. DC Power input jack

2.3 Remote Control(just for reference)



1-9	Channel Select 1-9
0	Number
ALL	Display all Channels
Menu	Enter or Exit Menu
▲	Move Up/Left
▼	Move Down/Right
SEL	Select /Modify Item
◀◀	Rewind
▶▶	Play Recording
▶▶	Fast Forward
●	Record
	Pause
■	Stop Recording/Playback
Audio	Search or switch the audio channels
Mute	Turn on/off audio output

Chapter 3: Installation

3.1 Install Hard Disk

NOTICE: Don't take out HDD when DVR is running.

Make sure the HDD is set to be MASTER according to the hard drive manual.

- (1) Remove the screws around the top cover;
- (2) Remove the top cover carefully;
- (3) Connect the power cord and data cable to hard disk carefully;
- (4) Use the provided screws to fix hard disk on the rack inside and then replace the top cover of the case.

3.2 Connecting Camera and Monitor

There are 4/9 camera inputs and 2/1 Monitor outputs with BNC connectors (Refer to 2.2 Rear Panel).

3.3 VGA Output (optional)

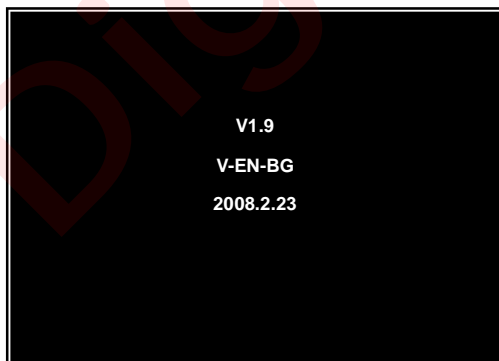
There is 1 CRT or LCD monitor output with VGA port.

3.4 Connecting Power Supply

Please only use the power adapter supplied with the DVR.

Chapter 4: Starting the DVR

4.1 Firmware Version



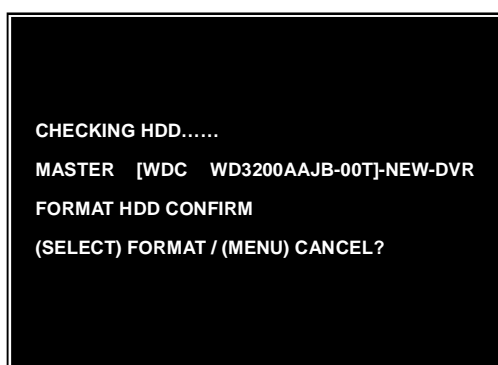
After connecting the power adapter and turning on the power button, the system will boot-up and display the version and released date of the DVR firmware.

4.2 Detecting Installed Hard Drive



DVR will detect the installed hard drive and display the hard drive information.

4.3 Format Hard Drive

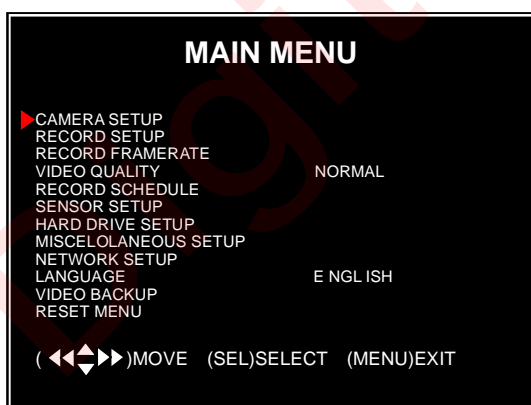


When the DVR detects a new hard drive, you will be prompted to format the hard drive before using the DVR.

Press **[SEL]** to format or press **[MENU]** to cancel.

Chapter 5: DVR Menu System

5.1 Navigating the Menus



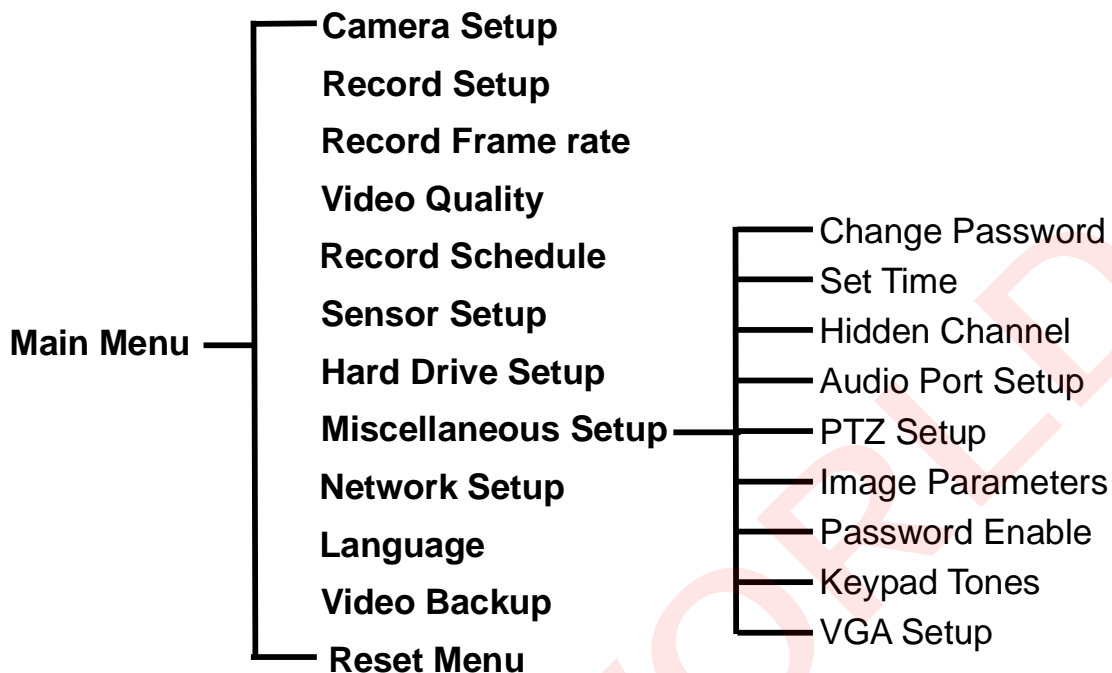
When the DVR detects a new hard drive, you will be prompted to format the hard drive before using the DVR.

Press **[SEL]** to format or press **[MENU]** to cancel.

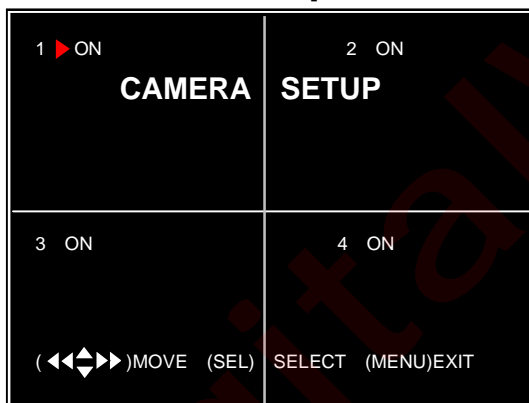
Note: if DVR supports USB memory stick, “VIDEO BACKUP” item is available. Otherwise, there’s no this item in main menu

5.2 Menu Overview

Menu Directory



5.3 Camera Setup

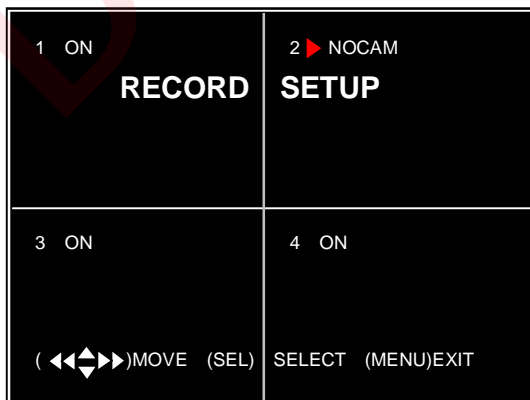


Camera Setup allows you to turn cameras on or off.

Press [▲, ▼, ◀ and ▶] buttons to select a channel and then press [SEL] to modify the setting **ON** or **OFF**.

Note: If a camera channel is set to **OFF**, it will not be recorded (Refer to 6.4 Record Setup)

5.4 Record Setup

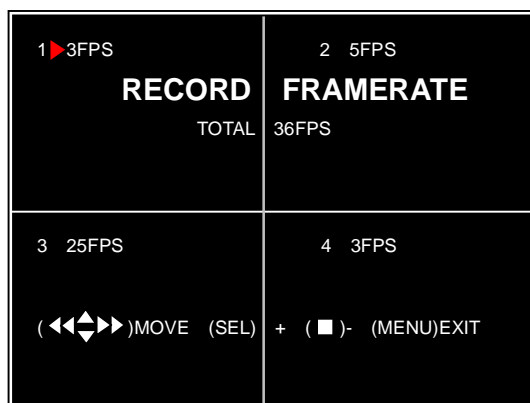


Record Setup allows you to set up recording channels.

Press [▲, ▼, ◀ and ▶] buttons to select a channel, and then press [SEL] to modify the setting to **ON** or **OFF**.

If a channel is disabled in Camera Setup, it will not record and the DVR will display “NOCAM” on screen.

5.5 Record Frame Rate

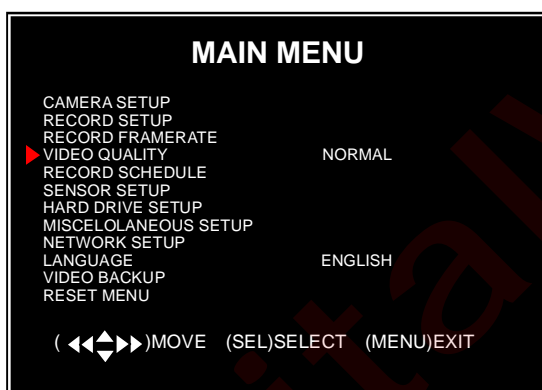


The total frame rate is 50fps (PAL) or 60fps (NTSC). You can set the frame rate for the channel which you select to record. If the sum of the frame rate you select for all cameras is more than 50fps (PAL)/60fps(NTSC), the DVR will automatically adjust the largest frame rate value to a smaller value.

Press [▲, ▼, ◀ or ▶] button to select a channel, and then press [SEL] to increase the value or press [■STOP] to reduce the value.

Note: Higher frame rate shows smooth images, but requires more hard drive space.

5.6 Video Quality



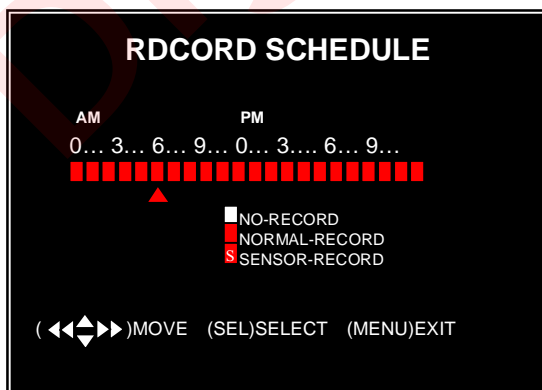
Video Quality has 4 different settings: **Highest, High, Normal and Low.**

The higher the video quality, the better quality of Images, however higher quality images require more hard drive space.

Press [SEL] to change the quality setting.

5.7 Record Schedule

Setting the Record Schedule allows you to customize the type of recording depending on the time of day.



The time line indicates 24 hours of a day based on AM/PM (0 = 12).

Press [▲, ▼, ◀ or ▶] button to select a time point, press [SEL] to modify the recording mode.

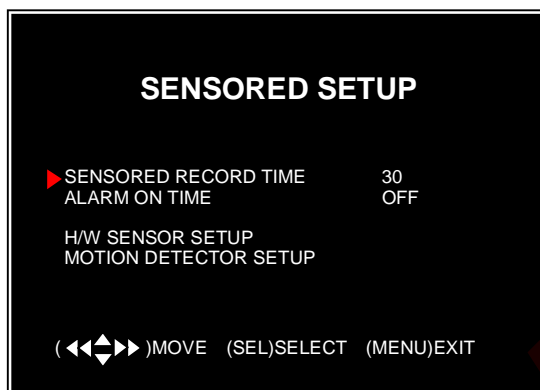
NO-RECORD [white]: DVR will not record during the time.

NORMAL-RECORD [red]: DVR will record continuously.

SENSOR-RECORD [S]: DVR will record when sensor or motion is triggered.

NOTE: In order to activate the record schedule, press the [●] record button when viewing the cameras. After pressing the [●] record button, if schedule is set to “NORMAL-RECORD”, the DVR will start to record immediately; if the schedule is set to be “SENSOR-RECORD”, the DVR will not start recording until a motion is detected by the DVR or an installed sensor is triggered.

5.8 Sensor Setup



Sensor Record Time indicates how long the recording time is when the motion or sensor is triggered.

Alarm On Time indicates whether the buzzer will sound when motion is detected.

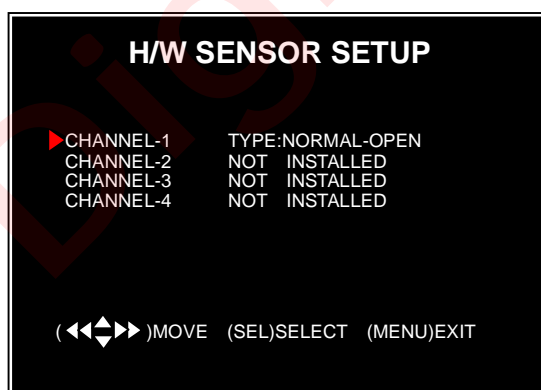
CONT: Continuous alarm until any key is pressed..

OFF: No alarm

Note: Sensored Record Time and Alarm On Time are measured in seconds

5.9 H/W Sensor Setup

Note: Sensors and extension alarm are not included with the DVR system and may be purchased separately.



HARDWARE SENSOR SETUP:

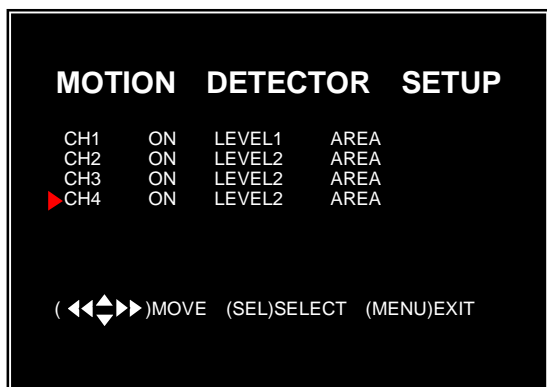
There are 3 different modes for sensor setting: NOT INSTALLED, NORMAL-CLOSE and NORMAL-OPEN. Consult the alarm purchased for more details on which setting is required.

Note: For 4-ch DVR, there are 4CH inputs of the sensor;

For 9-ch DVR, there are 8CH inputs of the sensor.

5.10 Motion Detector Setup

This section allows you to set up motion detection options for each camera.



MOTION DETECTOR SETUP:

ON/OFF: Enable or disable motion detection recording.

LEVEL: Sensitivity for motion detection.

There are 3 levels sensitivity: Level 1-low, 3- highest

AREA: Select detectable area on the screen.



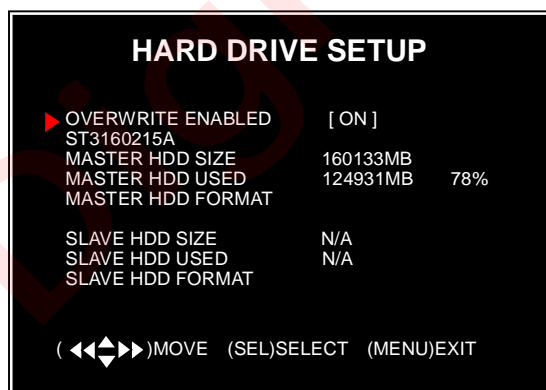
Area Selection:

Press [▲, ▼, ◀ or ▶] button to select a block, and press [SEL] button to set the block to detect motion. The area is detectable when it is clear, the area is not detectable when it is covert by shadow.

Press “stop” button to disable all areas, press “All” button to enable all areas

5.11 Hard Drive Setup

This section will display the current hard drive status and usage options



OVERWRITE ENABLED:

ON: overwrite oldest video when hard drive is full.

OFF: stop recording when hard drive is full.

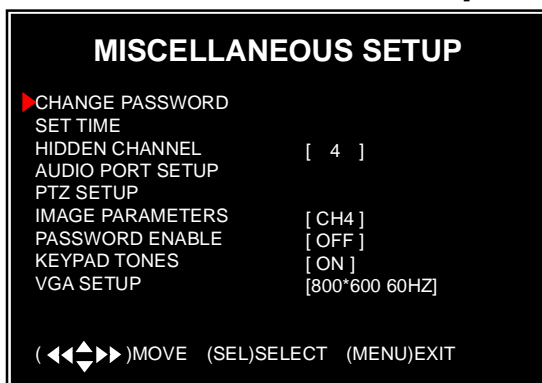
HDD SIZE: indicates the total capacity of the hard drive installed in the DVR.

HDD USED: indicates the space used in the hard disk drive for recording and the percent used.

HDD FORMAT: will erase all video and data on the installed hard drive and make it readable by the DVR

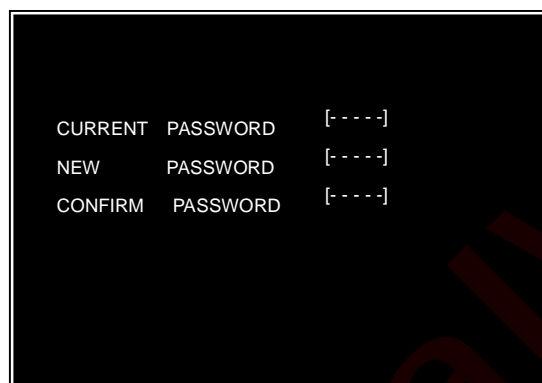
Note: You will be prompted for the password when formatting a hard drive. The default password is “111111”

5.12 Miscellaneous Setup - Change Password



This option allows you to change the system password. The password must be composed with six characters.

All keys can be used as password key **except** the [MENU] key, which is used to exit.



Enter the current password first, and then enter six characters as your new password, repeat the new password to confirm.

If you forget your password, please contact technical support for assistance.

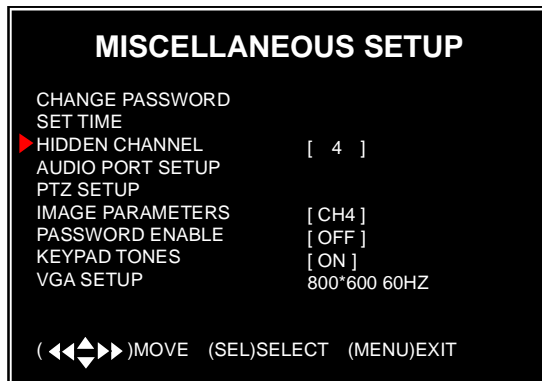
5.13 Miscellaneous Setup - Set Time



The system date and time format is YYYY/MM/DD and HH:MM: SS.

Press [◀] or [▶] button to select the data to modify, press [SEL] to modify. Press [MENU] to save and return to previous menu.

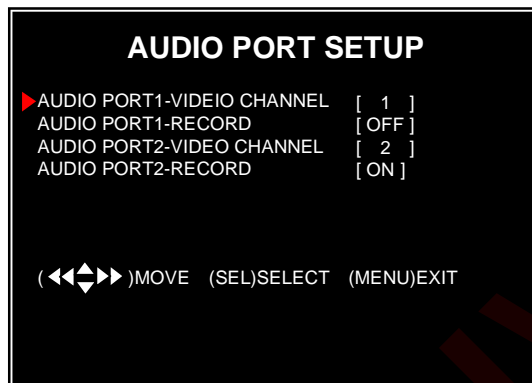
5.14 Miscellaneous Setup - Hidden Channel



The system provides a function to hide a channel in monitoring mode. The selected channel can still be recorded while it's hidden; the hidden picture is viewable during playing back.

Press [SEL] to select a channel to hide.

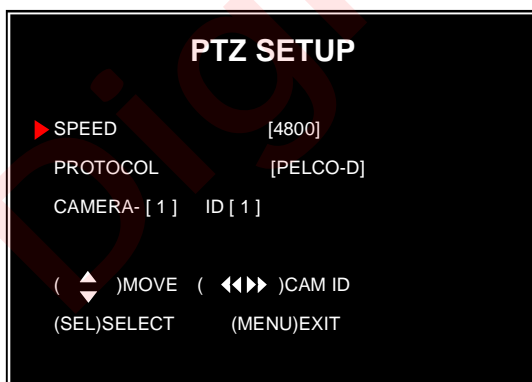
5.15 Miscellaneous Setup - Audio Port Setup



You can select the audio recording function to **ON** or **OFF**, and select the video channel that you like to record the audio on.

Note: For 4-ch DVR, there are 2 audio inputs;
For 9-ch DVR, there are only 1 audio input.

5.16 Miscellaneous Setup - PTZ Setup



SPEED: Set the baud rate (4800, 9600, 19200, 38400) match to your speed dome.

PROTOCOL: Supports “PELCO-D” and “PELCO-P”. Select the protocol according to your speed dome’s protocol.

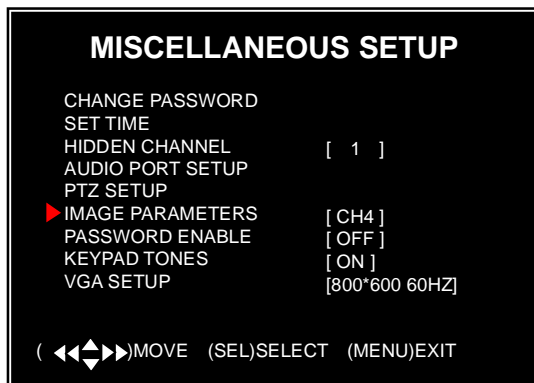
CAMERA: select the camera channel which is connected with the speed dome.

ID: Assign an ID to your speed dome.

Press [SEL] to select the camera, press [<<] and [>>] buttons to assign the ID.

Note: the ID must be unique.

5.17 Miscellaneous Setup - Image Parameters



You can adjust the image parameters according to your needs.

Move the cursor to this selection and press [◀] or [▶] button to select a channel you want to adjust, then press [SEL] button to edit parameters.



CON: Contrast

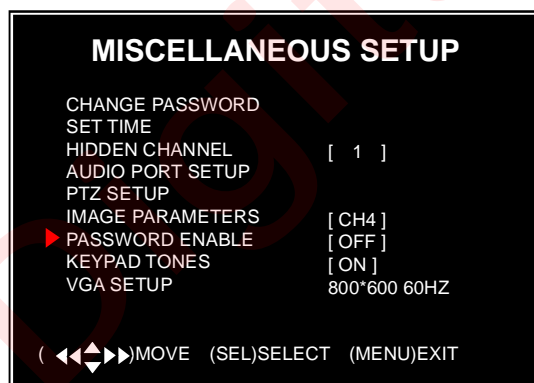
BRI: Brightness

HUE: Hue

SAT: Saturation

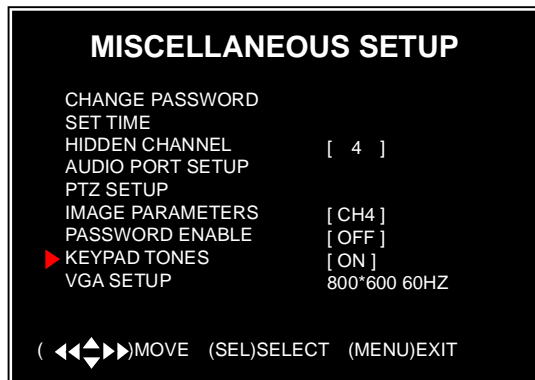
Press [▲] or [▼] to select the item, and then press [◀◀] and [▶▶] buttons to adjust the value.

5.18 Miscellaneous Setup - Password Enable



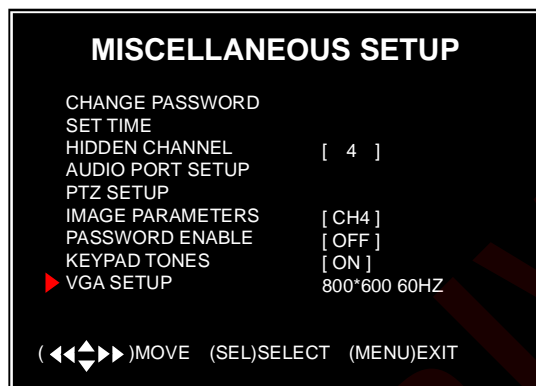
The password will be required to control the DVR when this option is set to “ON”, and the password is not required when this option is set to “OFF”.

5.19 Miscellaneous Setup - Keypad Tones



This function allows you to enable /disable buzzer sound when pressing a button. Press [SEL] to select **ON** or **OFF**.

5.20 Miscellaneous Setup - VGA Setup

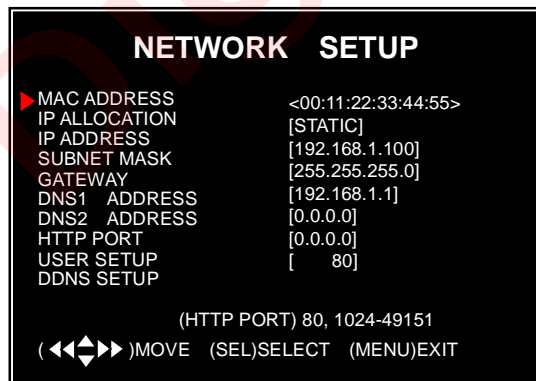


Select a VGA resolution to match your CRT or LCD monitor.

NOTE: VGA video output is an optional function and may not be available on all models.

5.21 Network Setup

Network Setup allows you to prepare the DVR for viewing over the internet or local network.



MAC ADDRESS: In a local area network(LAN), the MAC (Media Access Control) address is your computer's unique hardware identity code(On an Ethernet LAN, it is the same as your Ethernet address).When you are connected to the Internet from your computer (or host as the Internet protocol thinks of it) , a corresponding table relates your IP address to your computer's physical (MAC) address on the LAN.

IMPORTANT: This setting should only be changed if multiple DVRs are being setup on the same

User Manual

network and the first code “00” must not to be changed.

NETWORK SETUP	
MAC ADDRESS	<00:11:22:33:44:55>
▶ IP ALLOCATION	[DHCP]
IP ADDRESS	[192.168.1.100]
SUBNET MASK	[255.255.255.0]
GATEWAY	[192.168.1.1]
DNS1 ADDRESS	[0.0.0.0]
DNS2 ADDRESS	[0.0.0.0]
HTTP PORT	[0.0.0.0]
USER SETUP	[80]
DDNS SETUP	
(HTTP PORT) 80, 1024-49151	
(◀▶)MOVE (SEL)SELECT (MENU)EXIT	

IP ALLOCATION: DVR supports DHCP and Static IP modes. If your modem/router supports DHCP function, you can use DHCP mode. When using STATIC mode, you will be required to setup your IP settings manually.

Note: After setting the DVR to DHCP mode restart the unit.

NETWORK SETUP	
MAC ADDRESS	<00:11:22:33:44:55>
IP ALLOCATION	[STATIC]
▶ IP ADDRESS	[192.168.1.100]
SUBNET MASK	[255.255.255.0]
GATEWAY	[192.168.1.1]
DNS1 ADDRESS	[0.0.0.0]
DNS2 ADDRESS	[0.0.0.0]
HTTP PORT	[0.0.0.0]
USER SETUP	[80]
DDNS SETUP	
(HTTP PORT) 80, 1024-49151	
(◀▶)MOVE (SEL)SELECT (MENU)EXIT	

IP Address: In a local network, the IP address is a unique designated address for your DVR recognized by your router. Ensure this number is within the range usable by your modem/router. Use the UP “▲” and DOWN “▼” buttons to move the cursor and use the “SELECT” button to change the numbers. Once you have finished the changes restart your DVR.

NETWORK SETUP	
MAC ADDRESS	<00:11:22:33:44:55>
IP ALLOCATION	[STATIC]
IP ADDRESS	[192.168.1.100]
▶ SUBNET MASK	[255.255.255.0]
GATEWAY	[192.168.1.1]
DNS1 ADDRESS	[0.0.0.0]
DNS2 ADDRESS	[0.0.0.0]
HTTP PORT	[0.0.0.0]
USER SETUP	[80]
DDNS SETUP	
(HTTP PORT) 80, 1024-49151	
(◀▶)MOVE (SEL)SELECT (MENU)EXIT	

SUBNET MASK: Subnet Mask is used to determine what subnet an IP address belongs to. A number that is used to identify a sub network so that IP addresses can be recognized on a local area network. Consult your modem/router for your LAN’s subnet mask.

NETWORK SETUP

MAC ADDRESS	<00:11:22:33:44:55>
IP ALLOCATION	[STATIC]
IP ADDRESS	[192.168.1.100]
SUBNET MASK	[255.255.255.0]
▶ GATEWAY	[192.168.1.1]
DNS1 ADDRESS	[0.0.0.0]
DNS2 ADDRESS	[0.0.0.0]
HTTP PORT	[80]
USER SETUP	
DDNS SETUP	

(HTTP PORT) 80, 1024-49151

(◀▶)MOVE (SEL)SELECT (MENU)EXIT

GATEWAY: Set this number to the gateway set by your modem/router.

NOTE: To adjust the IP ADDRESS, SUBNET MASK and GATEWAY value, only when the [STATIC] mode is being selected.

NETWORK SETUP

MAC ADDRESS	<00:11:22:33:44:55>
IP ALLOCATION	[STATIC]
IP ADDRESS	[192.168.1.100]
SUBNET MASK	[255.255.255.0]
GATEWAY	[192.168.1.1]
▶ DNS1 ADDRESS	[0.0.0.0]
DNS2 ADDRESS	[0.0.0.0]
HTTP PORT	[0.0.0.0]
USER SETUP	[80]
DDNS SETUP	

(HTTP PORT) 80, 1024-49151

(◀▶)MOVE (SEL)SELECT (MENU)EXIT

DNS ADDRESS: This code should be provided by your local ISP.

NETWORK SETUP

MAC ADDRESS	<00:11:22:33:44:55>
IP ALLOCATION	[STATIC]
IP ADDRESS	[192.168.1.100]
SUBNET MASK	[255.255.255.0]
GATEWAY	[192.168.1.1]
DNS1 ADDRESS	[0.0.0.0]
DNS2 ADDRESS	[0.0.0.0]
▶ HTTP PORT	[80]
USER SETUP	
DDNS SETUP	

(HTTP PORT) 80, 1024-49151

(◀▶)MOVE (SEL)SELECT (MENU)EXIT

HTTP PORT: This port number is used to communicate with PC Client. The default value is 80(Can be changed from 1024 to 49151)

USER SETUP

ADMIN ID	[admin]
ADMIN PASSWORD	[admin]
USER ID	[]
USER PASSWORD	[]

(◀▶)MOVE (SEL)SELECT (MENU)EXIT

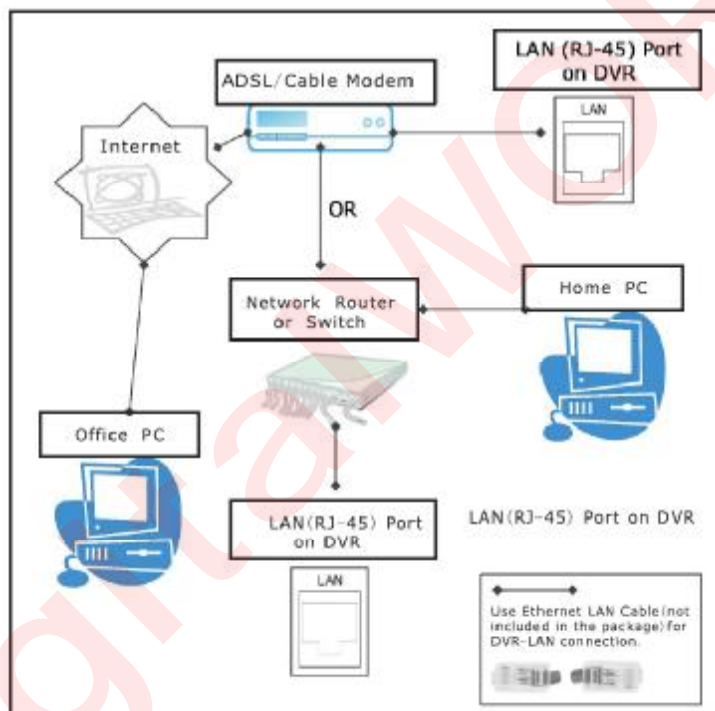
USER SETUP: When accessing the DVR from a remote location you will be prompted for a login and password. The default is “admin” for full administrator rights. Set “User ID” and password to setup a user with limited rights to prevent tampering.

DDNS SETUP		
DDNS PROVIDER	[WWW.DynDNS.com]	
DDNS USER NAME	[]	
DDNS PASSWORD	[]	
(◀▶)MOVE (SEL)SELECT (MENU)EXIT		

DDNS SETUP: If you require an external service to maintain a dynamic IP address enter the user information here.

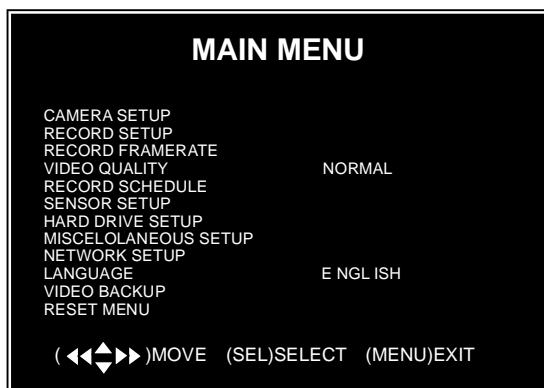
LAN-DVR Connection

See the diagram below for steps to connect your DVR to a local area network or the internet. For remote monitoring from your computer, you must have a LAN connection available or broadband Internet access.



You need to register a www.dyndns.org to get a free account. After registration, you will have a username and password. You can also register your domain name on the website. Please refer to Chapter 5 "Network Setup" for more details. There you will learn how to input the Dyndns username, password, and domain name. You can log in from anywhere by using Internet Explorer and entering your DVR's domain name.

5.22 Language



You can change the OSD language from the default English to other languages, if your DVR supports multi-languages.

5.23 Video Backup (For Optional USB Memory Stick Backup)

This function is only available for the model which supports USB memory stick device. If your DVR is with PC-link USB interface, please refer *Charter 8* for video backup.

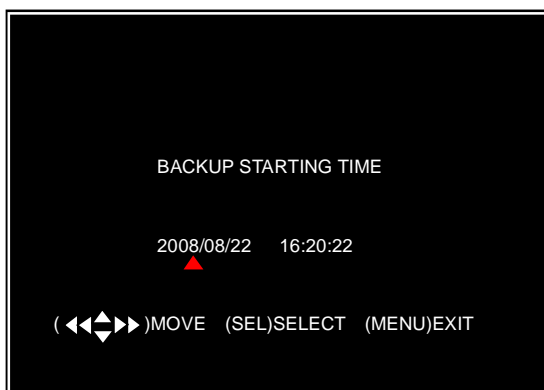


Move the cursor to “**VIEW EVENTS**”, press [SEL] to enter event list. Press [▲] or [▼] button to move the cursor, and then press [SEL] to select the event you like to backup and return to previous menu.

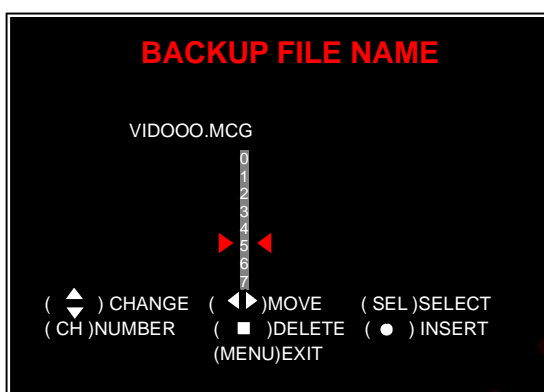


The DVR system already indicated the start & end time of the recording event. Move the cursor to “**SIZE**”, DVR will automatically indicate the size of the video you like to backup to USB memory stick.

User Manual



You can directly select the start& end time of a recording video to backup. Move the cursor to “**START**” or “**END**”; press [SEL] to enter the interface. Press [◀] or [▶] button to move the cursor, and then press [SEL] to modify the value. Press [MENU] back to previous menu.



You can rename the backup file. Press [◀] or [▶] button to select the character you want to modify, press [▲] or [▼] button to select a character from the given character list, and then press [SEL] to enter.

Please note that the name must be ended with “.MCG”.



Insert your USB memory stick device into DVR’s USB port.

Move the cursor to “**BACKUP TO USB DEVICE**”, press [SEL] button.



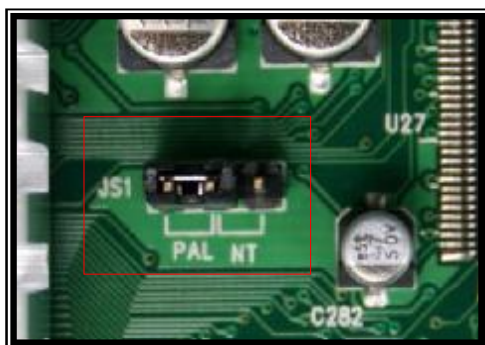
DVR will check your USB device as left picture showed and then start to copy the backup file.

Please read *Charter 8* on how to play back your backup file.

5.24 Reset Menu

If you select this item, the system will restore all your settings to factory default values. You need to enter your password to reset the menu.

5.25 NTSC/PAL Output select



Change the jumper JS1 to select NTSC or PAL video output format according to the silkscreen on the PCB.

Chapter 6: Record

6.1 Start Recording

Press [●] record button to start recording according to the record schedule you have set. System will display some information on screen.



[●]: the red dot next to the channel name indicates that the channel is being recorded.

[A-REC]: indicates the current record schedule is set to NORMAL-RECORD mode.

[S-REC]: indicates the current record schedule is set to SENSOR-RECORD mode.

[N-REC]: indicates the current record schedule is set to NO-RECORD mode.

[39%]: indicates the percentage of hard disk space used.

[M]: HDD info ([M] Master Hard Disk)

6.2 Audio Recording

[🔊]: indicates this video channel is bundled with an audio port, and the audio output is on.

[🔇]: indicates the audio output is off.

[🔊]: indicates the audio is being recorded and the audio output is on.

For 9-channel, you could press [MUTE] button on front panel to be mute mode for audio output. The audio input can be still recorded while the output is mute.

For 4-channel, you could press [DOWN] button on front panel to be mute mode for audio output. The audio input can be still recorded while the output is mute. And You could press [UP] button to switch one of the two audio inputs to live output

6.3 Stop Recording

Press [■] stop button will stop recording. If password protection function is enabled, system will prompt you to input password. Only correct password can stop recording process.

6.4 Estimated Recording Length

Estimated record time based on 160GB HDD

Standard	Quality	60fps	48fps	32fps	16fps	1fps
NTSC	Highest	62	78	116	232	3720
	High	88	110	165	330	5280
	Normal	107	134	201	401	6420
	Lower	120	150	225	450	7200

Standard	Quality	50fps	36fps	24fps	12fps	1fps
PAL	Highest	64	89	133	267	3200
	High	90	125	188	375	4500
	Normal	110	153	229	458	5500
	Lower	123	171	256	513	6150

Unit: Hour

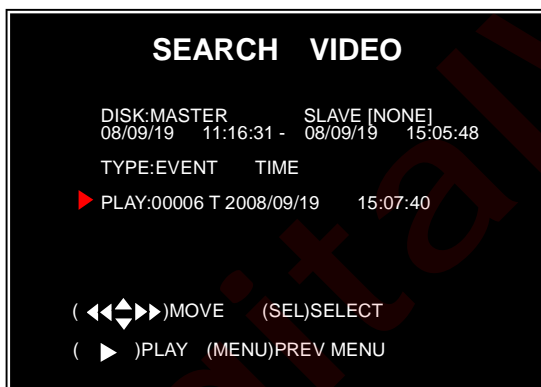
Chapter 7: Playback

7.1 Playback Control

Press the [▶] PLAY button goes into PLAYBACK mode. The newest record event will be played.



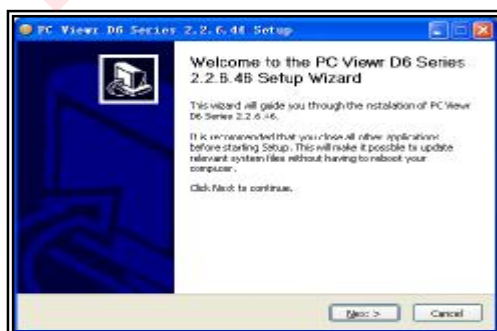
Press the [MENU] button during PLAYBACK mode, then the system will list all the recorded events. The latest record will be on top of the list. Press the [▲UP] or [▼DOWN] button to select the event and then press [▶] to play the event.



Another way to search video is directly input time period. Press the [MENU] button then use [◀] or [▶] button to select the TIME search mode. Use [SEL] button to edit time value, press [▶] to play the video. If the time you selected has no record event, it will indicate "NO EVENTS" on the screen when you press [▶] play

Chapter 8: USB Programming (optional)

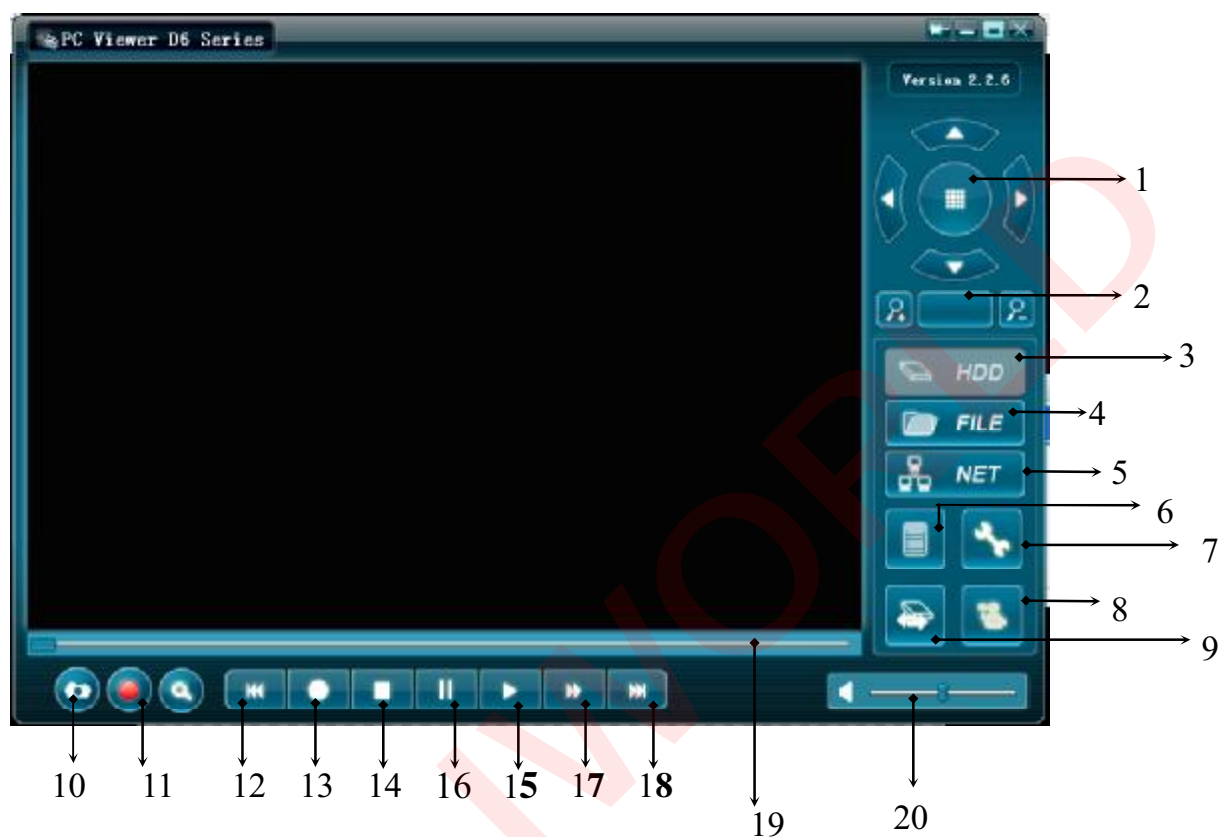
8.1 Driver Installation:



- (1) Insert driver CD in your CD-ROM Drive.
- (2) Open CD directory.
- (3) Double click on the install applications.
- (4) Run "Install" program.
- (5) Follow the setup wizard to finish the installation.

8.2 Program Interface

Button functions:




1.PTZ Control	11.Convert Streams to AVI file
2.Zoom in, Zoom Out	12.Back One Frame
3.HDD Play Mode	13.Record
4.File Play Mode	14.Stop
5.Net Play Mode	15.Play
6.Event List	16.Pause
7.Control Panel	17.Fast Forward
8.Remote DVR Control	18.Forward One Frame
9.Change Storage Device	19.Playback Slider
10.Capture Image	20.Audio Slider


8.3 Program Running

8.3.1 HDD play mode


System will detect the HDD automatically when you connect the USB cable to your PC.

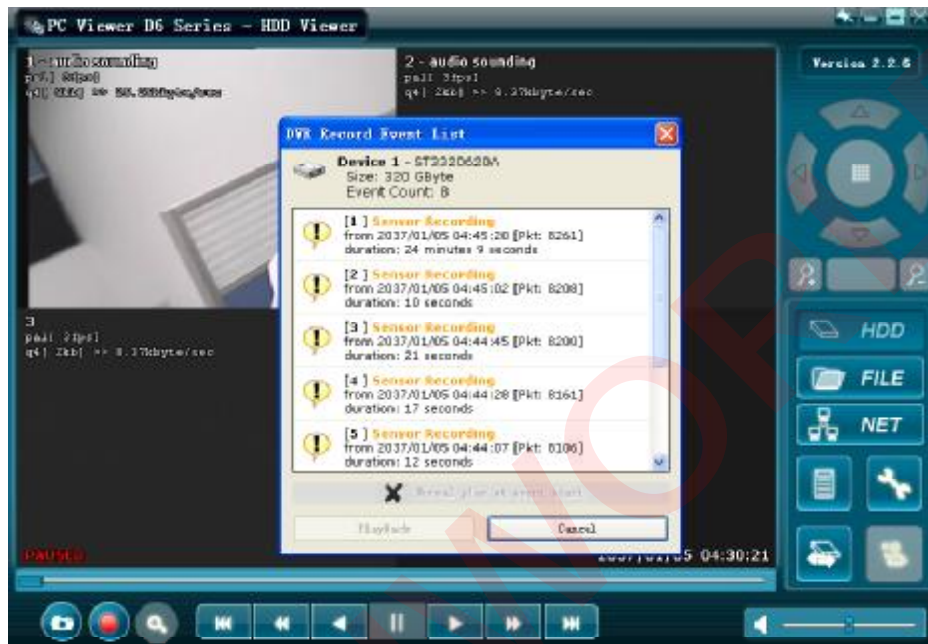
An USB icon“” will appear in the system tray (right bottom corner of the screen).

User Manual

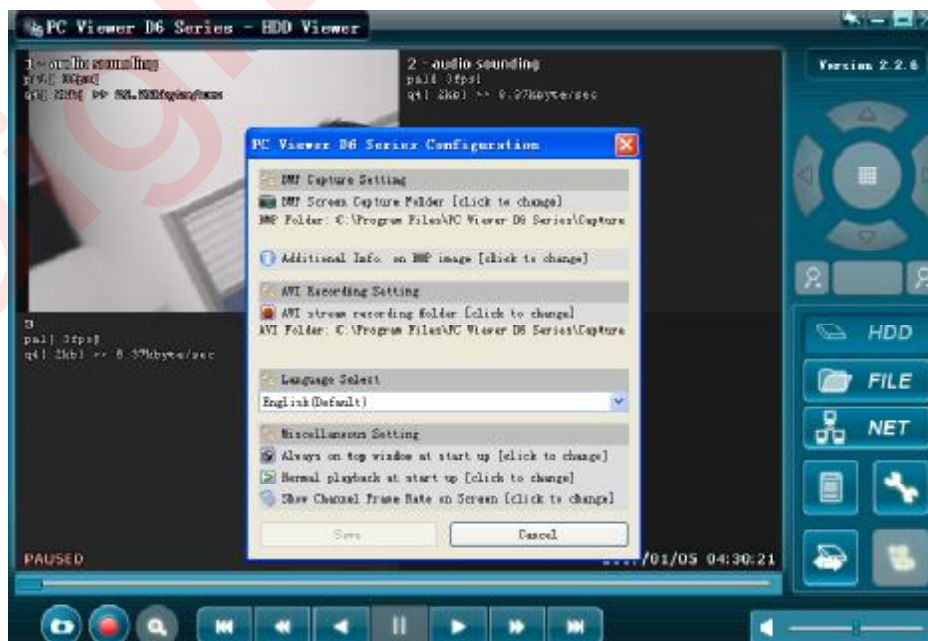
After you've seen the USB icon, double click “  ” icon on your desktop to run the program.

Note: if you do not follow above steps, the program will fail to detect HDD

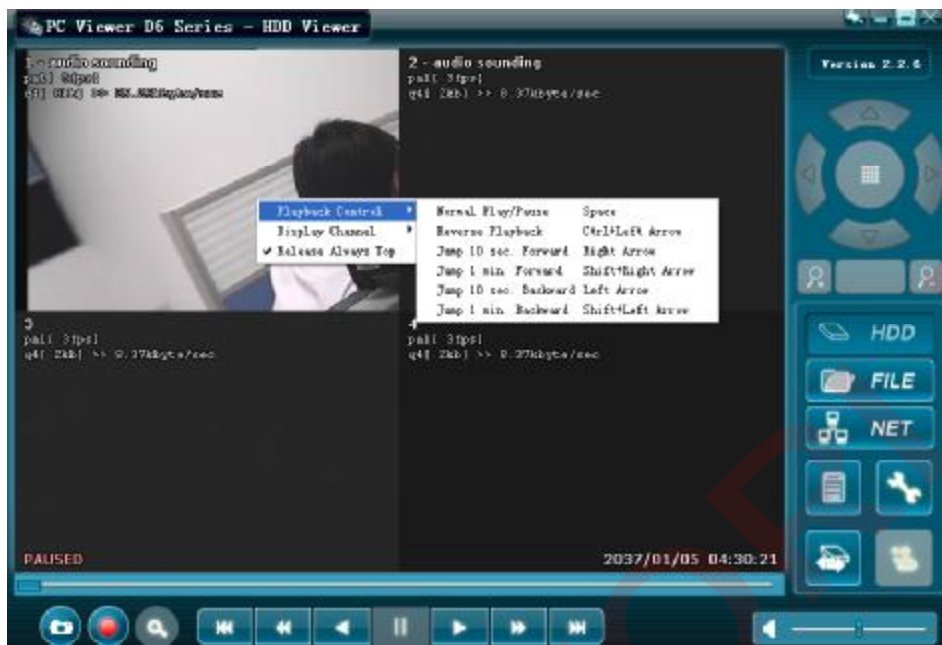
Press  to open the video event lists.




Press  to configure the program local settings



Press  to play video.



8.3.2 FILE play mode: (only when you plug a USB Memory Stick into your PC)

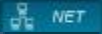
Press “ FILE” to open a folder and select the file you want play.

Double click the file.

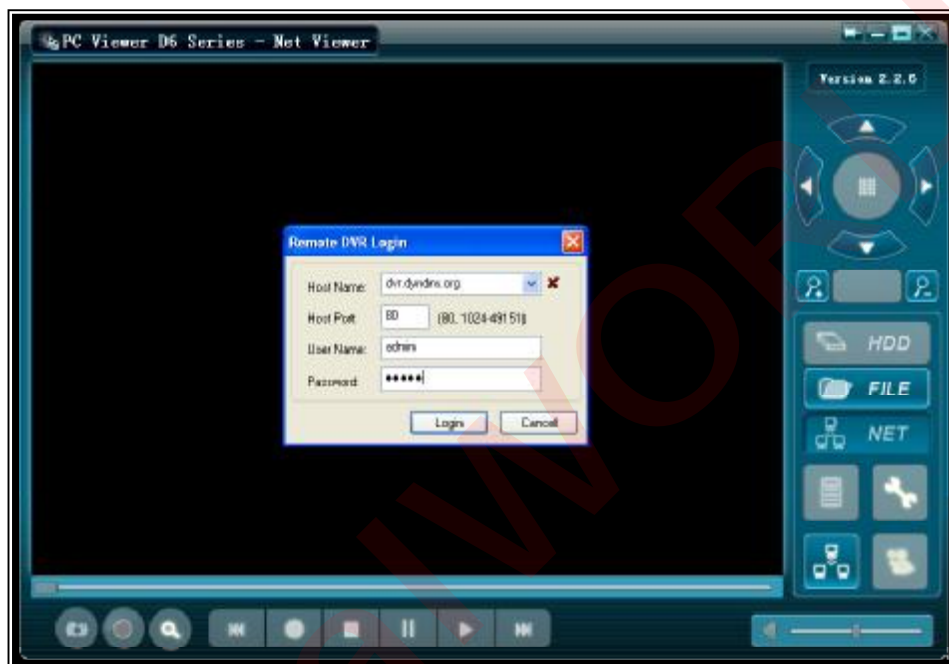


8.3.3 NET play mode:

This mode allows you to remote control your DVR via Internet or Intranet.

Press “ NET” to pop up the login window.

Fill in Host Name, Host Port, User Name and Password of the DVR that you want remotely access and then press Login to enter the main page.



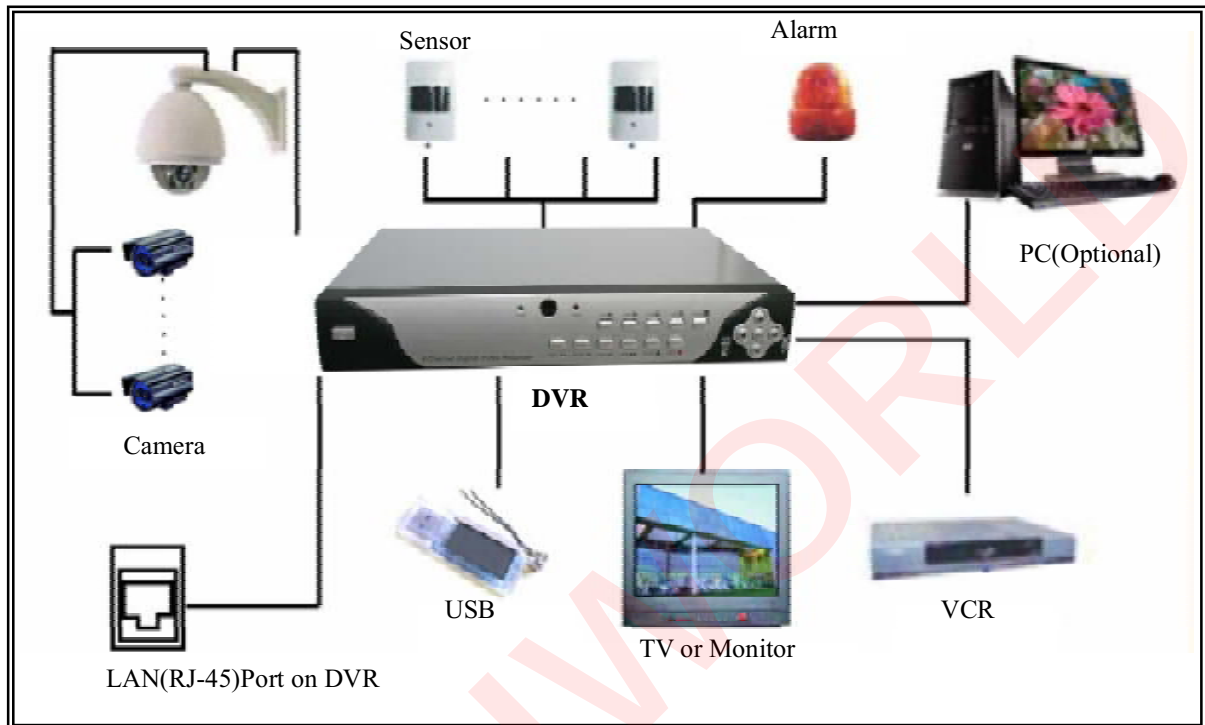
Chapter 9: Specification

4 / 9-Channel DVR

Items	Descriptions	
Video Standard	NTSC/PAL	
Video Input/Output	4 Channels/2 Channels, 9 Channels/1 Channel	
Audio Input/Output	2 Channels/2 Channels, 1 Channel/1 Channel	
Monitoring	Resolution	NTSC:720X480@30fps(Each Ch) PAL:720X576@25fps(Each Ch)
	Features	Full-D1, 1-CH/4-CH/9-CH Display
Recording	Resolution	NTSC:720X240@60fps(4/9Ch.Total) PAL:720X288@50fps(4/9Ch.Total)
	Features	Variable Frame Rate/Variable QL per Channel
	Quality	4-Level(Highest, High, Normal, low)
Audio	ADPCM2 CODEC	
Video	MPEG4	
Motion Detection	Settable Window/Level	
Microprocessor	32-bit RISC Processor	
Network Interface	TCP/IP(RJ45)	
Network Monitor	IE(Internet Explorer)	
PTZ Interface	RS485	
USB Interface	USB2.0	
VGA Output	Optional	
Remote control	IR remote control	

Chapter 10: Appendix

10.1 System connection diagram



10.2 Accessories



Power Cord

Design may vary depending on country



Power Adaptor



User's Manual



Software CD



Remote Controller



USB Cable (For PC Backup Only)

China prints 2008.4

V1.0

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